

Title (en)

Process for purifying products containing esters of a non-reducing sugar and one or more fatty acids.

Title (de)

Verfahren zur Reinigung von Produkten, die Ester eines nichtreduzierenden Zuckers und eine oder mehrere Fettsäuren enthalten.

Title (fr)

Procédé d'épuration de produits contenant les esters d'un sucre non réducteur et un ou plusieurs acides gras.

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Application

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Abstract (en)

The invention relates to a process for purifying crude products containing esters of a non-reducing sugar like sucrose, and one or more fatty acids such as palmitic acid, stearic acid etc. by subjecting said crude esterification products to an extraction treatment with supercritical carbon dioxide. After carrying out this extraction treatment a residue comprising the fatty acid esters of non-reducing sugars, the unreacted sugar and the salts as well as an extract comprising the fatty acids, fatty acid alkyl esters and also any solvents, if present, are obtained. The unreacted sugar and salts, present in the obtained residue, can be removed from said residue by, for example, a washing operation resulting in a final product of pure esters of the non-reducing sugar and one or more fatty acids. This last removal step concerning the unreacted sugar and salts may also be carried out before the application of the above indicated extraction treatment with supercritical carbon dioxide.

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Citation (search report)

- [A] EP 0065390 A1 19821124 - TATE & LYLE PLC [GB]
- [A] WO 8702697 A1 19870507 - ANGIO MEDICAL CORP [US]
- [A] PARFUMS, COSMETIQUES, AROMES, no. 55, February/March 1984, pages 47-54; L. PEYRON: "Le dioxyde de carbone liquide et supercritique: solvant d'extraction des produits naturels"
- [A] ANALYTICAL CHEM., vol. 57, 1985, pages 2243-2247, American Chemical Society; T.L. CHESTER et al.: "Separation of sucrose polyesters by capillary supercritical-fluid chromatography/flame ionization detection with robot-pulled capillary restrictors"

Cited by

EP0712857A3; US5646258A; US8822651B2; US8329894B2; WO9306114A1

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